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SERVICE MANUAL PM351

This service manual explains them by extracting the different specifications from those of the PM440, based on the PM440. For both electrical and mechanical information on the after-sales service which is not stated, all information is described in the PM440 service manual. The dispatch of the parts for after-sales service has to be referred to this service manual, with the first priority.
For this reason, please use this service manual with referring to the PM440 service manual, without fail.

Different Parts between MODEL PM351 and MODEL PM440.

Page	REF. DESIG.	PM440 (N, A)	PM351	DESCRIPTION
10	A	262H248400	293H248400	Front Panel Assembly
	001B	262H248010	293H248010	Front Panel
	002B	261H105050	———	Chassis, Front
	004B	261H265030	292H265010	Indicator, Function
	005B	261H265010	261H265110	Indicator, Balance
	006B	261H270010	261H270110	Button, Tuner
	007B	261H270020	261H270120	Button, Phono
	008B	261H270030	261H270130	Button, Video/Aux
	009B	261H270040	261H270140	Button, Tape Monitor
	010B	261H270050	261H270150	Button, CD
	021B	———	261H105510	Chassis (K) Front
	001S	262H801010	293H801010	Packing Case
	001T	262H851310	293H851310	User Manual
	002T	262H851320	293H851320	User Manual, Spec.
	003T	262H856010	293H856010	Circuit Diagram [N]
11	017B	262H270500	262H270510	Button MM/MC
	001F	262H105020	293H105020	Chassis, Main
	003F	416H057010	011T057010	Leg
	005F	51706009U0	52040408A0	H. Head Bolt. S, F
12	P701	YK262H1610	YK262H1610	P.W. Board, Main
		ZZ262H1610	ZZ293H8610	P.W. Board Assembly
	C411	EA22701630	EA10701630	Elect 100μF 16V
	C412	EA22701630	EA10701630	Elect 100μF 16V
	C417	DF16333350	DF16332350	Film 0.0033μF ±10%
	C418	DF16333350	DF16332350	Film 0.0033μF ±10%
	C421	DF16472350	———	Delete
	C422	DF16472350	———	Delete
	C425	———	DK16821300	Ceramic 820pF ±10%
	C426	———	DK16821300	Ceramic 820pF ±10%
	C427	———	DK16471300	Ceramic 470pF ±10%
	C428	———	DK16471300	Ceramic 470pF ±10%
	C809	EA10701630	———	Delete
	CK01	EA10605030	———	Delete
	CK04	EA33505030	EA33510030	Elect 3.3μF 100V
	CK05	EA47506330	———	Delete
	R403	GD05331140	GD05100140	10Ω
	R404	GD05331140	GD05100140	10Ω

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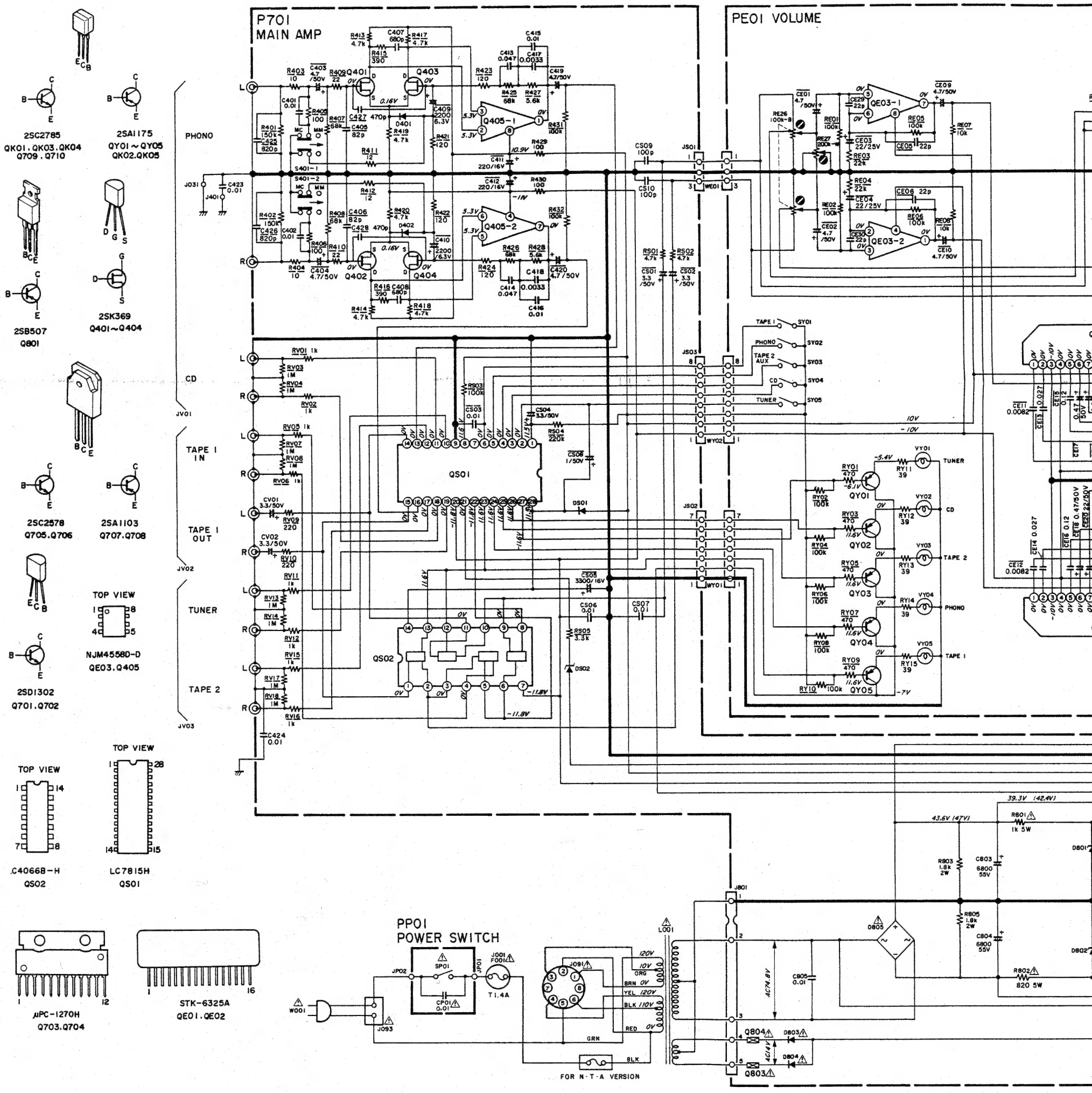
Different Parts between MODEL PM351 and MODEL PM440.

Page	REF. DESIG.	PM440 (N, A)	PM351	DESCRIPTION
13	R433	GD05561140	————	Delete
	R434	GD05561140	————	Delete
	R801	GA05102030	GP05102050	1KΩ 5W
	R802	GA05821050	GP05821050	820Ω 5%
	R737	————	NF02100140	10Ω, Fusible
	R738	————	NF02100140	10Ω, Fusible
	R740	————	GD05223140	22KΩ
	D707 ~ D710	HD20011010	HD20022030	Diode DSF-10C
	D806	HD30026020	HD30045010	Zener HZ9C1-L
	DK01	HD20001000	————	Delete
	DK02	HD30023010	————	Delete
14	⚠ Q703	HC10097060	HC10114060	IC μPC-1270H
	⚠ Q704	HC10097060	HC10114060	IC μPC-1270H
	⚠ Q705	HT325802A0	HT331822A0	Transistor 2SC3182 (R, O)
	⚠ Q706	HT325802A0	HT331822A0	Transistor 2SC3182 (R, O)
	⚠ Q707	HT111052A0	HT112652A0	Transistor 2SA1265 (R, O)
	⚠ Q708	HT111052A0	HT112652A0	Transistor 2SA1265 (R, O)
	⚠ Q801	HT205072Q0	HT206472F0	Transistor 2SB647 (C, D)
	Q802 ~ Q804	————	FU10215010	Rrolector Unit 1CPF-25
	QK03	HT327852B0	HT314002A0	Transistor 2SC1400 (D, E)
	JV01 ~ JV03	YT02040470	YT02040500	Terminal, RCA Jack
	PE01	YK262H1620 ZZ262H1620	YK262H1620 ZZ293H8620	P.W. Board, Volume P.W. Board, Assembly
	CE07	EA22601630	————	Delete
	CE08	EA22601630	————	Delete
	CE11	DF16472350	DF15822350	Film 8200pF ±5%
	CE12	DF16472350	DF15822350	Film 8200pF ±5%
	CE13	DF16183350	DF15273350	Film 0.027μF ±5%
	CE14	DF16183350	DF15273350	Film 0.027μF ±5%
	CE15	DF16823350	DF15124350	Film 0.12μF ±5%
	CE16	DF16823350	DF15124350	Film 0.12μF ±5%
	CE17	EA33405030	EJ47405010	Elect 0.47μF 50V
	CE18	EA33405030	EJ47405010	Elect 0.47μF 50V
	CE19	EA10505030	EJ22505010	Elect 2.2μF 50V
	CE20	EA10505030	EJ22505010	Elect 2.2μF 50V
	CE23	DF16183350	DF15183350	Film 0.018μF ±5%
	CE24	DF16183350	DF15183350	Film 0.018μF ±5%
	CE27	DF16683350	DF15104350	Film 0.1μF ±5%
	CE28	DF16683350	DF15104350	Film 0.1μF ±5%
	RE09	GG05101140	————	Delete
	RE10	GG05101140	————	Delete
	RY11 ~ RY15	————	GG05390140	39Ω
15	PX01	YK262H1660 ZZ262H1660	YK262H1660 ZZ293H8660	P.W. Board, Speaker Lamp P.W. Board Assembly
	RX01	————	GA05331010	330Ω 1W
	RX02	————	GA05331010	330Ω 1W

SCHEMATIC DIAGRAM



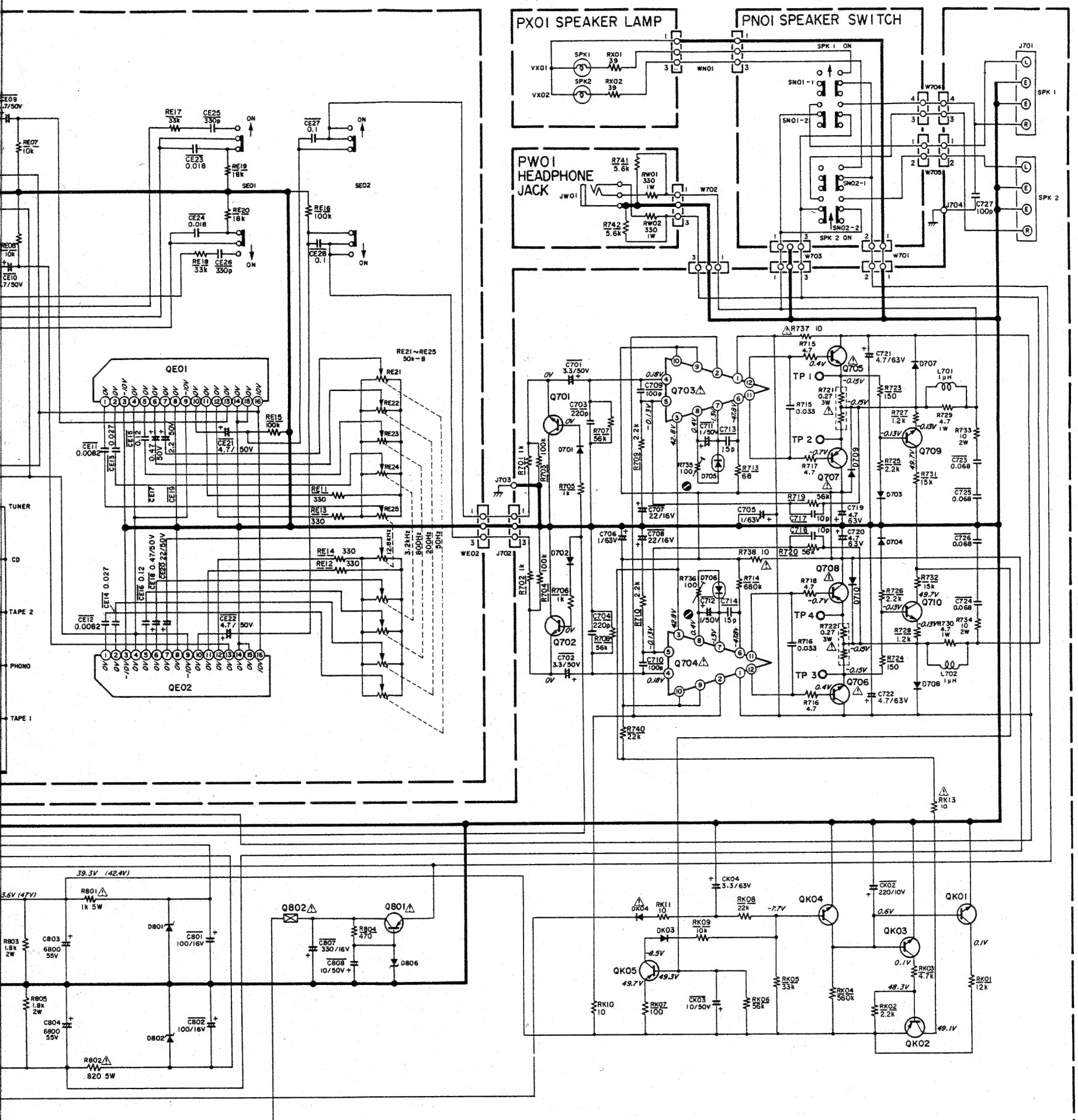
F001	FS10140800	FUSE 1.4A
J001	YJ08000290	JACK FUSE HOLDER
J091	BY05080050	VOLTAGE SELECTER
J093	YP04005080	PLUG AC INLET
L001	TS18617010	POWER TRANSF
J701	YT03080020	TERMINAL SPEAKER
JV01	YT02040500	TERMINAL RCA JACK
JV02	YT02040500	TERMINAL RCA JACK
JV03	YT02040500	TERMINAL RCA JACK
L701	LL23905120	COIL 1 mH
L702	LL23905120	COIL 1 mH
S401	SP04010470	PUSH SWITCH PHONO/MM, MC
RE21 ~ RE25	RS05030520	VARIABLE 50 KΩ (B)
RE26	RM01040840	VARIABLE 100 KΩ (B)
RE27	RX02040080	VARIABLE 200 KΩ (W)

SE01	SP02011090	PUSH SWITCH LOUDNESS/LOW FILTER
SE02	SP02011090	PUSH SWITCH LOUDNESS/LOW FILTER
SY01 ~ SY05	SP01010800	PUSH SWITCH SELECTOR
VY01 ~ VY05	IN10080620	LAMP
SN01	SP04020440	PUSH SWITCH SPEAKER - 1
SP01	SP01010650	PUSH SWITCH POWER
CP01	DK18103840	CERAMIC 0.01μF
JW01	YJ01001790	JACK HEADPHONE
VX01	IN10080620	LAMP 8V 50 mA
VX02	IN10080620	LAMP 8V 50 mA
W001	ZC01805010	AC POWER CORD [N]
W001	ZC02006020	AC POWER CORD [A]

NOTE ON SAFETY :
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

Components and wiring are subject to change f

Model PM351



QE01.QE02
HC10108030
STK-6325A

QE03.Q405
HC10008090
NJM4558D-D

QY01~QY05.QK02.QK05
HT111752B0
2SA1175

QK01, QK04, Q709, Q710
HT327852B0
2SC2785(J,H)

QS01
HC10110030
LC7815H

QS02
HC406603C0
LC4066B-H

Q401~Q404
HF203691G0
2SK369(G,R)

Q701.Q702
HT413022B0
2SD1302(S,T)

Q703.Q704
HC10114060

Q705.Q706
HT331822A0
2SC3182(R,O)

Q707.Q708
HT112652A0
2SA1265(R,O)

Q801
HT206472F0
2SB647(C,D)

Q802~Q804
FU10215010
ICP-F-25 1A

QK03
HT314002A0
2SC1400(D,E)

DS01, D701~D704
HD20001000
1S1555

DK03
HD20002210
1S2472

DK04, D707~D710, D803, D804
HD20022030
DSF-10C

D705.D706
HV00009080
STV3H(O,Y)

D805
HD20008290
S4VB

D806.DS02
HD30045010
HZ9C1-L(8.9-9.3V)

D801, D802
HD30038010
HZ9C1L(10.9-11.3V)

SS/LOW FILTER
SS/LOW FILTER
)R
R-1

"SERVICE INFORMATION IS FOR USE BY QUALIFIED RERSONNEL ONLY –
ANY MISADJUSTMENT OR MISALIGNMENT MAY BE TREATED AS A NON-WARRANTY
REPAIR BY ANY MARANTZ SERVICE CENTRE –"

Kind of Common Parts

RESISTOR

R*** (1) GD05 - - - 140, Carbon film fixed resistor, ±5% 1/4W
R*** (2) GD05 - - - 160, Carbon film fixed resistor, ±5% 1/6W

C*** : **CERAMIC CAP.**

(1) DD1 - - - - 370, Ceramic condenser, disc type (titan condenser) Temp. coeff. P350 ~ N1000 50V

C*** : **CERAMIC CAP.**

(1) DK16 - - - 300, High dielectric constant ceramic condenser, disc type (titan variable) Temp. chara. 2B4 50V

C*** : **ELECTROLY CAP. (⇌) / FILM CAP. (⇌)**

(1) EA - - - - - - 10, Electrolytic condenser, one-way lead type, tolerance ±20%
(2) DF15 - - - 350, Plastic film condenser, one-way type, Mylar, ±5% 50V

* In case of ordering the common parts, please establish the correct parts number of 10 figures by the procedure "ASSIGNMENT OF COMMON PARTS CODES"

wiring are subject to change for modification without notice.

TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT PER CHANNEL

DIN 4 OHMS	**70 W**
RMS 4 OHMS	**65 W**
DIN 8 OHMS	**60 W**
RMS 8 OHMS	**50 W**
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS	**0.05%**
I.M. DISTORTION	**0.05%**
DAMPING FACTOR 8 OHMS (1 kHz)	**55**

MM CARTRIDGE INPUT

Frequency Response (RIAA) 20 Hz – 20 kHz)	±0.5 dB
Signal-to-Noise Ratio	80 dB
Input Impedance	47 k ohms
Input Capacitance	100 pF
Input Sensitivity	2.5 mV

MC CARTRIDGE INPUT

Input Sensitivity	250 μV
Input Impedance	100 ohms

AUX. INPUT

Input Impedance	25 k ohms
Input Sensitivity	150 mV
Frequency Response (±2 dB)	10 Hz – 50 kHz
Signal-to-Noise Ratio	93 dB

OUTPUT VOLTAGE

Tape Out (Input 7.75 mV)	417 mV

OUTPUT IMPEDANCE

Tape Out	300 ohms

GENERAL

Power Requirements	110/120/220/240V AC, 50/60 Hz
Power Consumption at Rated Output, both Channels Operating	240 W
Dimensions	
Panel Width	416 mm
Panel Height	85 mm
Depth	225 mm
Weight	
Unit Alone	5.3 kg

Specifications and appearance are subject to change for modification without notice.

SERVICE MANUAL PM440

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model PM440

Stereo Pre Main Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:
Parts can be ordered either by mail or by telex. In both cases, MARANTZ part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

MARANTZ S.A.
EUROPEAN PARTS DEPARTMENT
2, Avenue Léopold III
B-7120 PERONNES-lez-BINCHE
BELGIUM
TWX: 57589 SEPLT B

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
Phone: 1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

PARTS ORDERING:
Parts may be ordered from the following addresses:

EUROPE

MARANTZ S.A.
European Parts Department
2, Avenue Léopold III
B-7120 Péronnes-lez-Binche
Belgium
Telex: 57589

MARANTZ DENMARK
Bregnerødvej 132b
3460 Birkerød
Denmark
Telex: 39137

MARANTZ BELGIUM
45 Rue Auguste Van Zande
1080 Brussels
Belgium

MARANTZ NEDERLAND B.V.
Wagenmackersweg 3
3449 H.V. Woerden
Netherlands

MARANTZ AUSTRIA Ge.M.B.H.
25 Franz Lisztgasse
2380 Perchtoldsdorf
Austria
Telex: 113583

MARANTZ S.A.
326 Avenue Louise Bte 32
1050 Bruxelles
Belgium
Telex: 26602

MARANTZ FRANCE
4 Rue Bernard Palissy
92600 Asnières
France
Telex: 611651

MARANTZ SVENSKA A.B.
Svartviksvägen 56
Träneberg Bromma
Sweden
Telex: 13449

MARANTZ ITALIANA S.p.A.
Via Monte Napoleone, 10
20121 Milano
Italia

MARANTZ GERMANY G.M.B.H.
Max-Planckstrasse 22
6072 Dreieich 1
Germany
Telex: 4185316

MARANTZ AUDIO U.K. LTD.
Unit 15/16
Saxon Way Industrial Estate
Moor Lane
Harmondsworth UB7 OLW
Great Britain
Telex: 935196

AUSTRALIA

MARANTZ AUSTRALIA PTY., LTD.
19 Chard Road
Brookvale, NSW 2100
Australia
Telex: 24121

U.S.A.

MARANTZ COMPANY, INC.
National Service Dept.
P.O. Box 577
Chatsworth, CA 91311
U.S.A.
Telex: 4720284

JAPAN

MARANTZ JAPAN, INC.
35-1, 7-chome, Sagamiono
Sagamihara-shi, Kanagawa
Japan
Telex: 22878

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

> In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

NOTE—FOR U.S.A. ONLY
Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If, for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from SUPERSCOPE NATIONAL PARTS DEPARTMENT.

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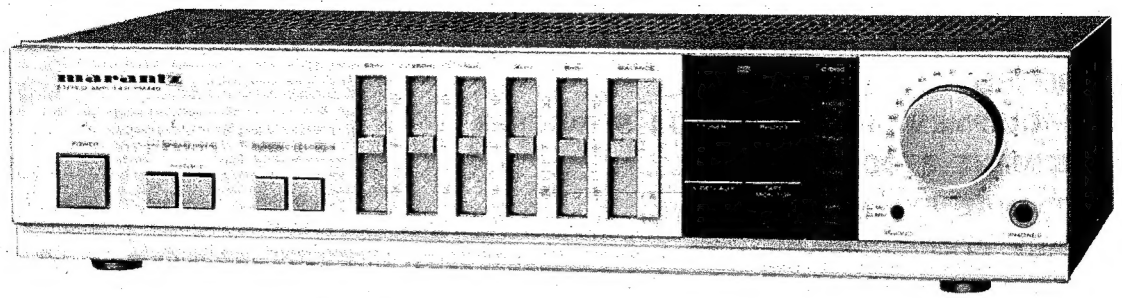
TABLE OF CONTENTS

MODEL PM440 STEREO PRE MAIN AMPLIFIER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for the Marantz Model PM440 Stereo Pre Main Amplifier.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

1. SHOCK, FIRE HAZARD SERVICE TEST:

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before return to user/customer.

REF UL Standard No. 1270. Para. 66. 3. D (Mandatory Test after servicing Electrical Appliances, effective 7-1-83).

2. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model PM440 consists of the following units. Each unit mounted on a printed circuit board is discribed within the square enclosed by a bold dotted line on the circuit diagram.

1. **Main Amp. . . . . mounted on P.W. Board P701**
2. **Volume . . . . . mounted on P.W. Board PE01**
3. **Speaker Switch . . . . . mounted on P.W. Board PN01**
4. **Power Switch . . . . . mounted on P.W. Board PP01**
5. **Headphone Jack . . . . . mounted on P.W. Board PW01**
6. **Speaker Lamp . . . . . mounted on P.W. Board PX01**

3. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model PM440 Stereo Pre Main Amplifier.

Item	Use
Distortion Analyzer	Distortion measurements
Audio Oscillator	Sinewave and squarewave signal source
AC VTVM	Voltage measurements (AC)
Oscilloscope	Waveform analysis and trouble shooting and ASO alignment
Circuit Tester	Trouble shooting
DC VTVM	Voltage measurements (DC)
AC Wattmeter	Monitors primary power to amplifier
Line Voltmeter	Monitors potential of primary power to amplifier
Variable Autotransformer (0 ~ 140V AC, 10A)	Adjust level of primery power to amplifier
Shorting Plug	Shorts amplifier input to eliminate noise pickup

4. ADJUSTMENT PROCEDURES

IDLING ADJUSTMENT

1. Set the input and the output of the unit to OPEN.
2. Connect a digital voltmeter between TP-1 and TP-2 of channel L, and between TP-3 and TP-4 of channel R.
3. Turn on the power switch, wait for 10 seconds, and then adjust R735 of channel L and R736 of channel R so that the digital voltmeter registers 12 mV (22 mA).

5. FUNCTIONAL EXPLANATION

1. FUNCTION SWITCH

This unit can store more than one week's schedule in its memory, thanks to the four source-one monitor high voltage resistant analogue function switch IC and the capacitor backup for the memory. When the charge of the memory backup reaches zero, the tuner will be initialized. Additionally, the mute signal for the popping sound caused when the function is switched is output from DS02 so that the input of the main amplifier will be muted.

2 TONE AMPLIFIER

The tone amplifier features a simple design that uses a single operational amplifier. The level of 100 Hz and 10 kHz can be controlled over a range of +/—10 dB, and the gain is approximately 20 dB. The output stage is connected to the subsonic filter formed by CE21 and CE22 (0.068 μF). 0.

3. POWER AMPLIFIER

The power amplifier uses the monolithic IC UPC1270H which includes a driver stage as the voltage amplifier, and discrete power transistors for the final stage.

4. PHONO EQUALIZER AMPLIFIER

The high gain phono amplifier uses an FET differential amplifier together with an operational amplifier input stage. Low output designs such as MC cartridges can be used as well as MM, MI, or other high output cartridge designs.

5. GRAPHIC EQUALIZER

The first stage is a buffer amplifier which amplifies the input by approximately 6 dB. QE01 and QE02 (STK 6325A) of the second stage are the graphic equalizer ICs. They form a five band graphic equalizer (63 Hz, 25 Hz, 1 kHz, 4 kHz, 16 kHz).

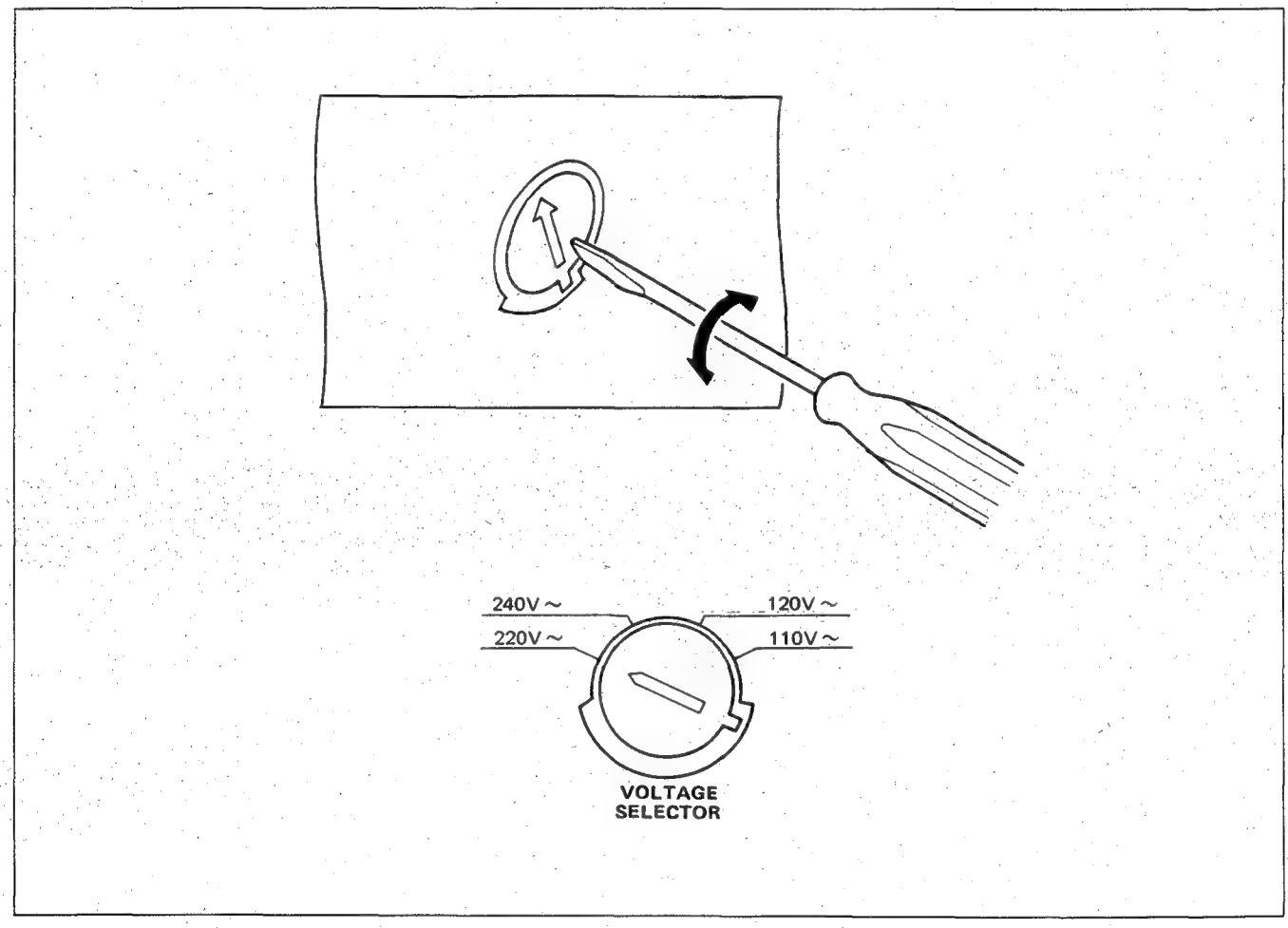
6. VOLTAGE CONVERSION

- **EUROPEAN MODEL ONLY**

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

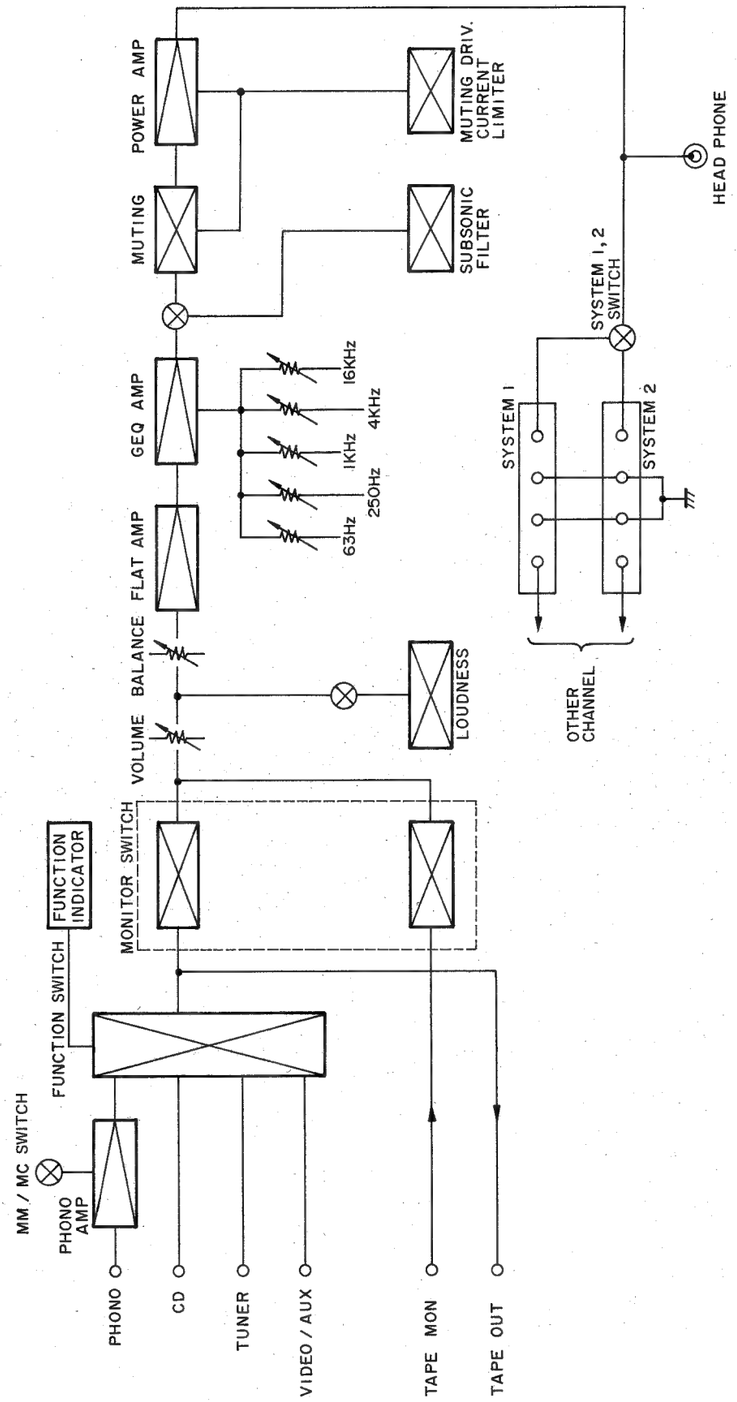
CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart



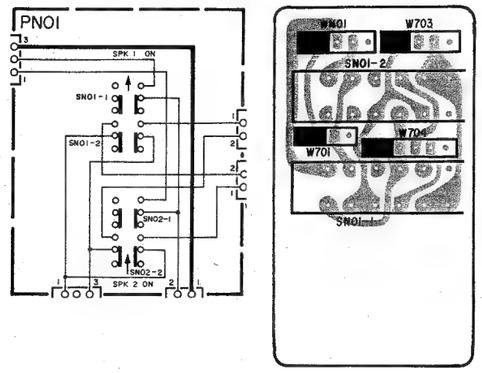
Note on safety: Symbol ⚠ Fire or electrical shock hazard. Only orignal parts should be used to replace any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

7. BLOCK DIAGRAM

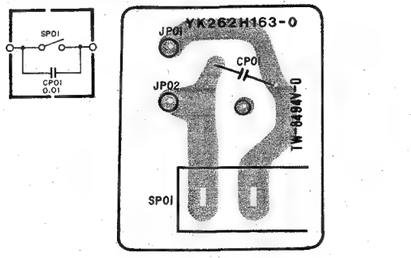


8. DIAGRAM AND COMPONENT LOCATIONS

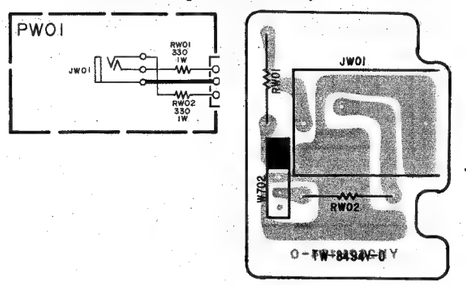
8.1 Speaker Switch Assembly (PN01)
Schematic Diagram and Component Locations



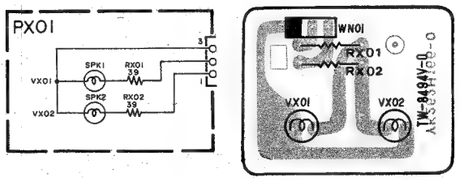
8.2 Power Switch Assembly (PP01)
Schematic Diagram and Component Locations



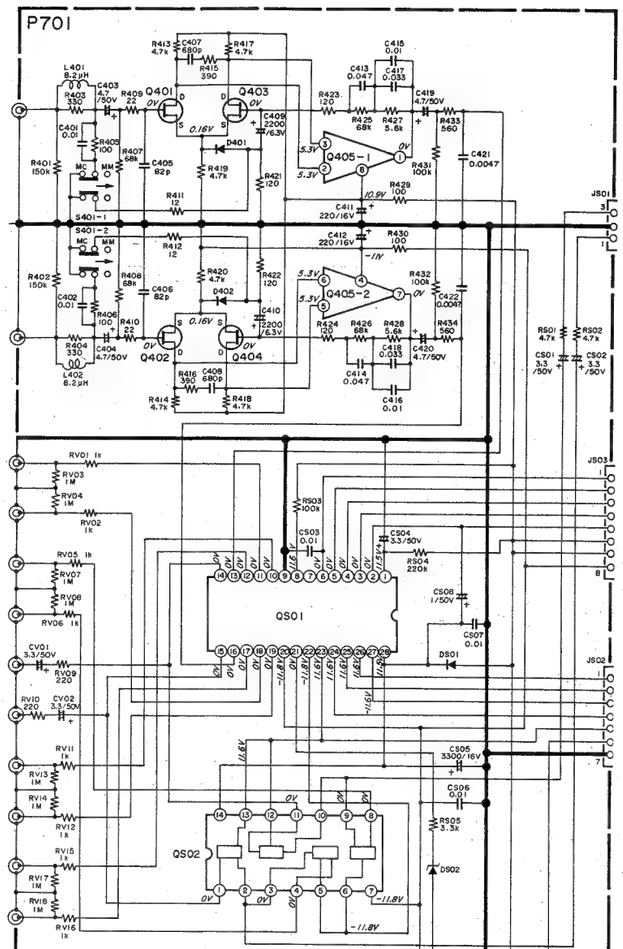
8.3 Headphone Jack Assembly (PW01)
Schematic Diagram and Component Locations



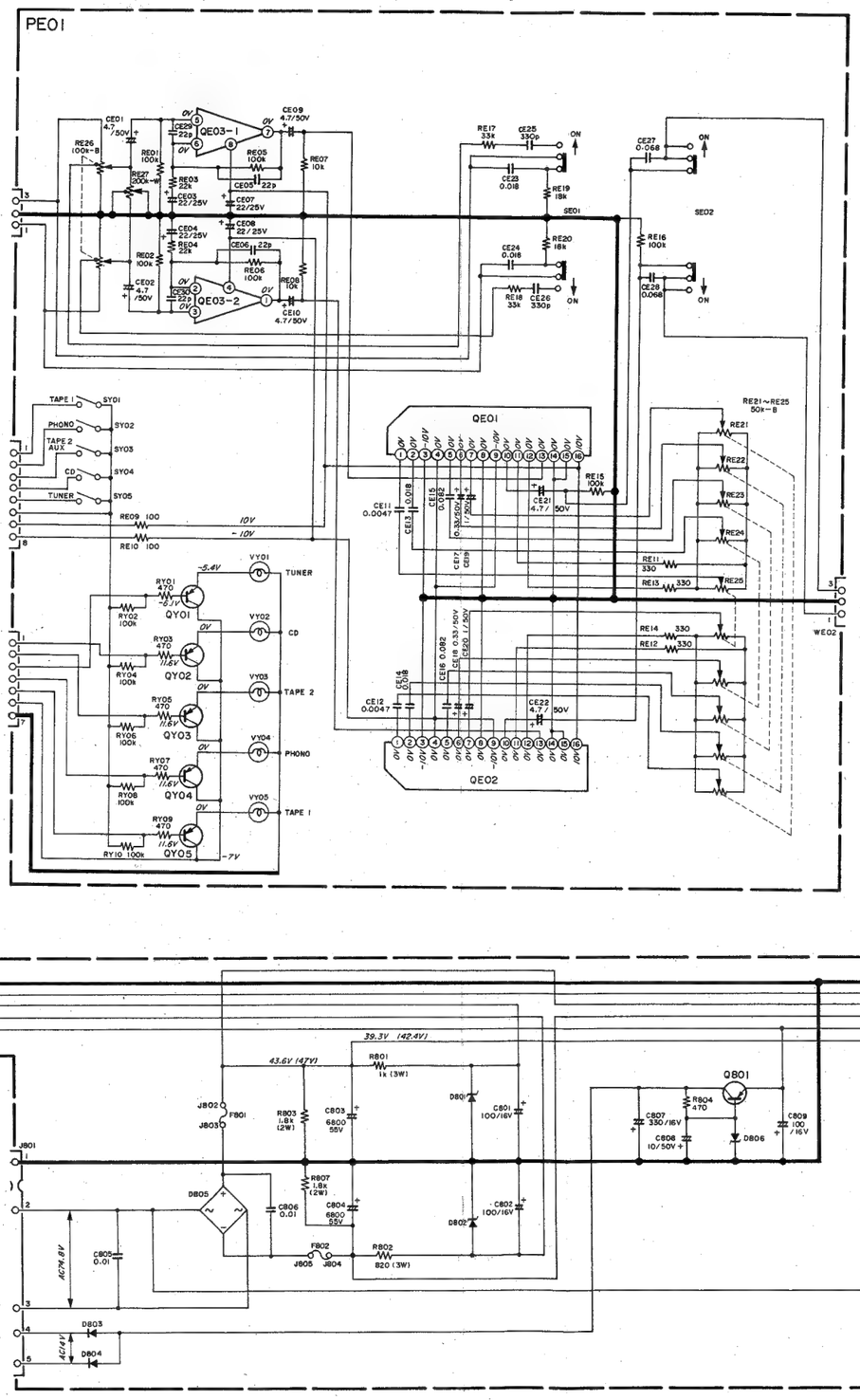
8.4 Speaker Lamp Assembly (PX01)
Schematic Diagram and Component Locations

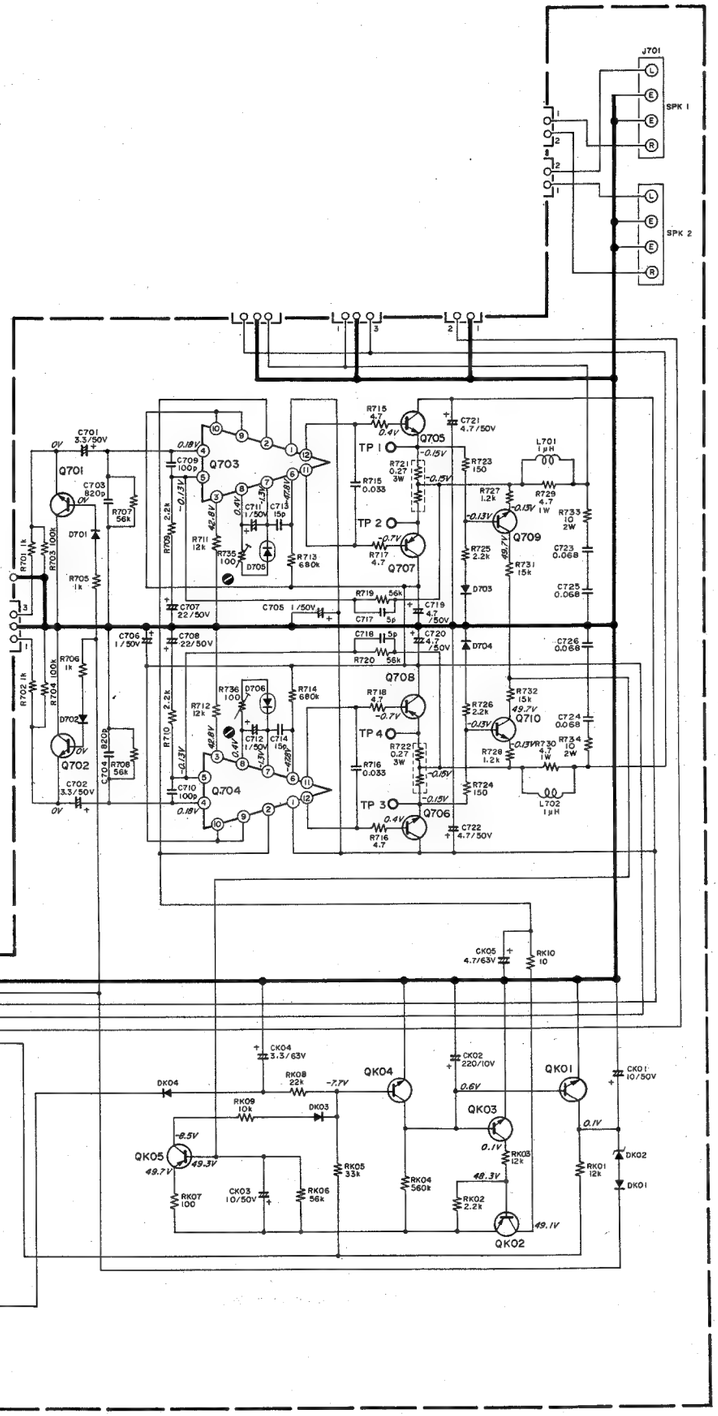


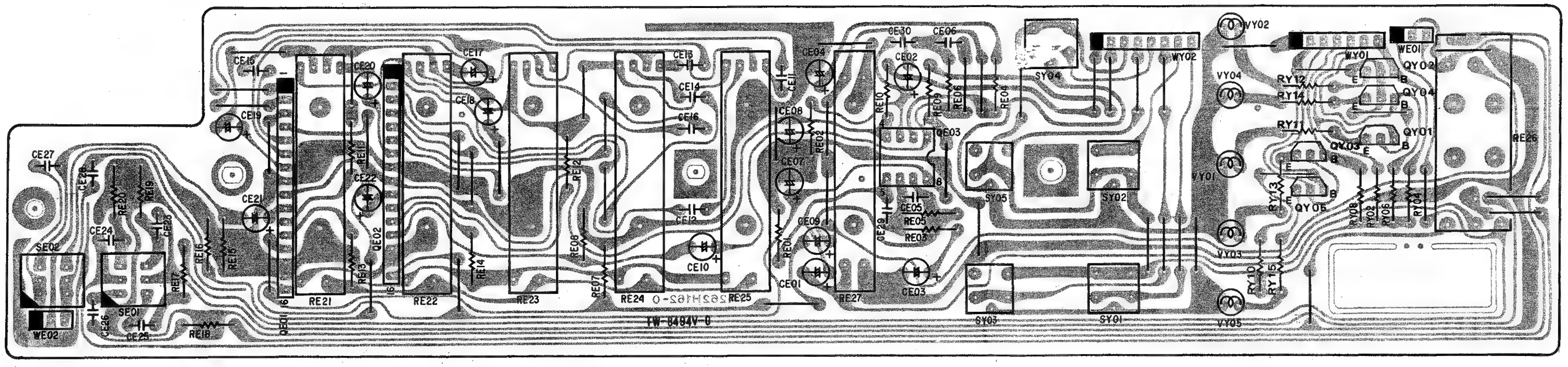
8.5 Main Amp. Assembly (P701)
Schematic Diagram and Component Locations

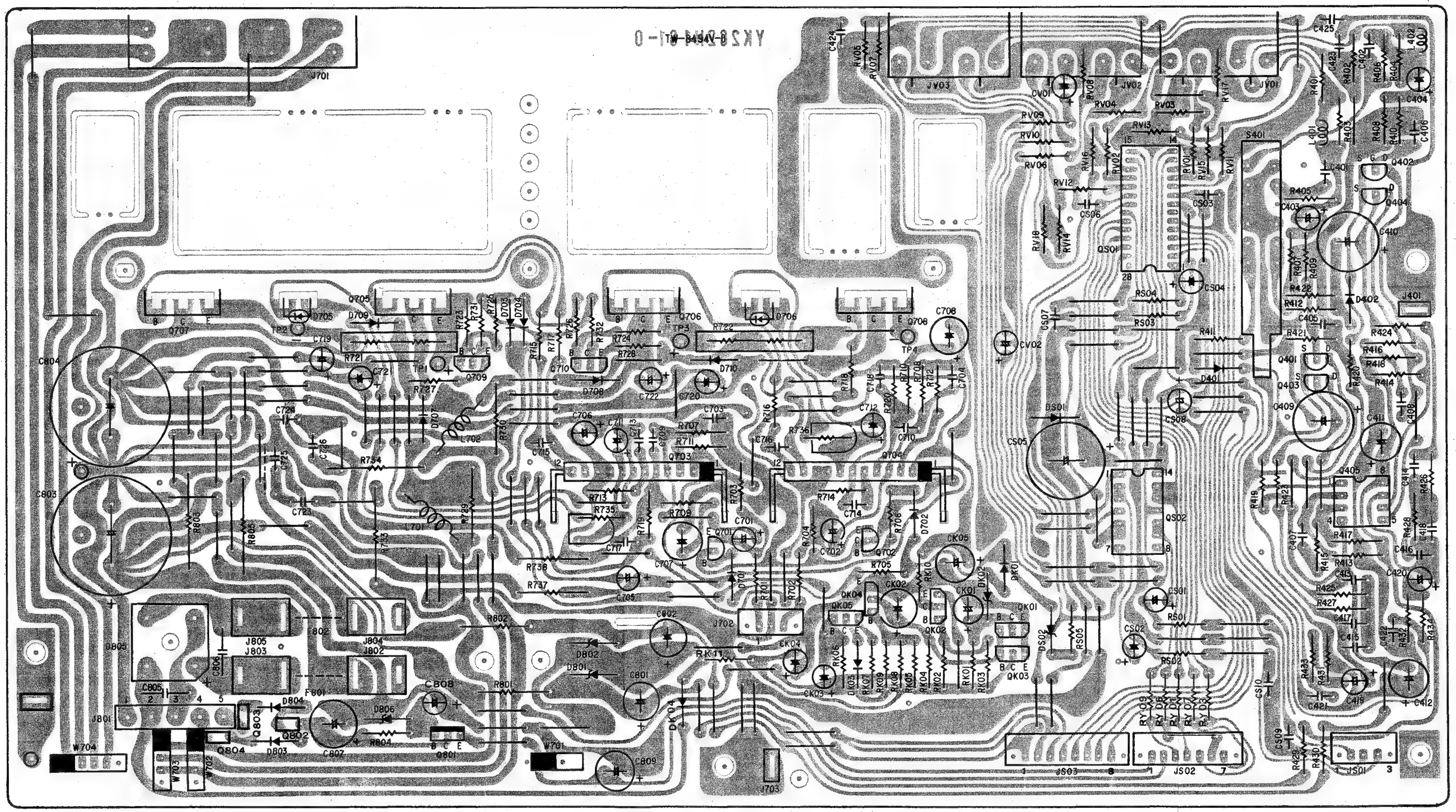


8.6 Volume Assembly (PE01) Schematic Diagram and Component Locations



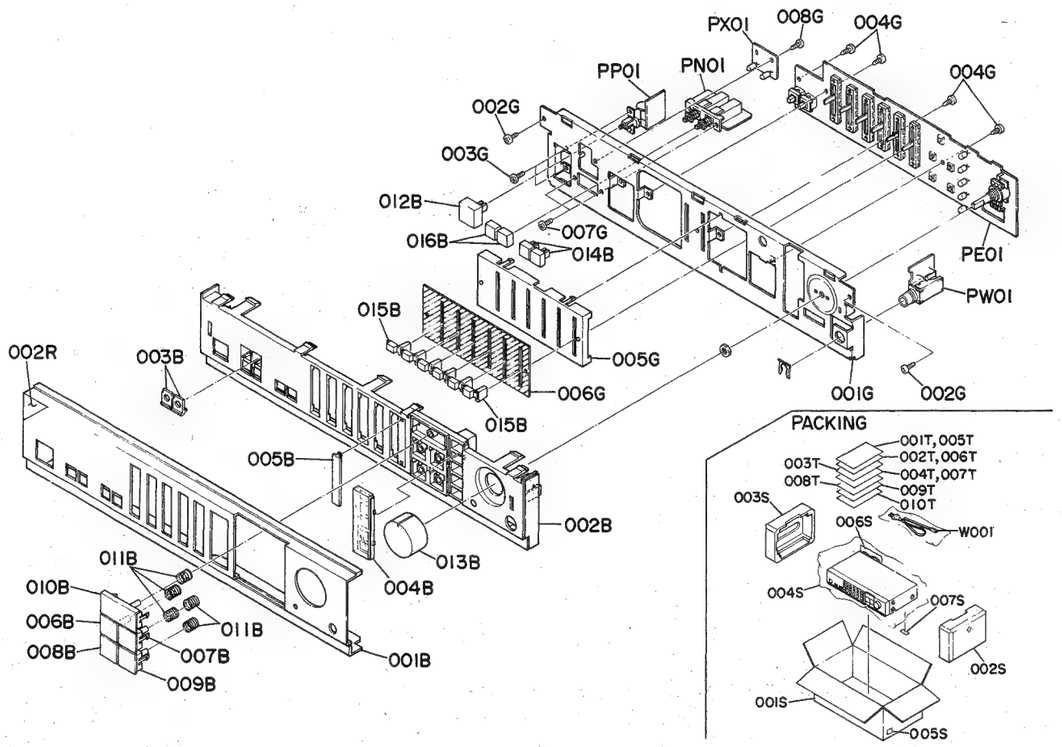



TW-8494V-0


TW-8494V-0

9. EXPLODED VIEW AND PARTS LIST

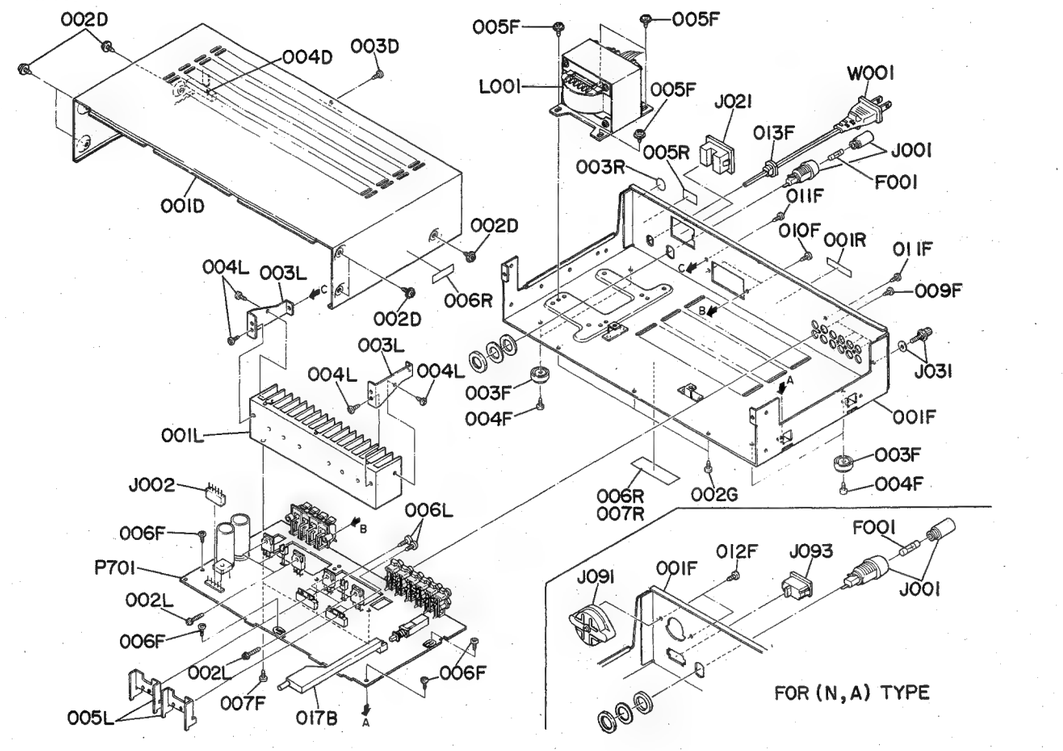
● [P01-99] Front Panel/Chassis and Packing Materials



REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
A	1	1	1	262H248400	Front Panel Assembly
001B	1	1	1	262H248010	Front Panel
002B	1	1	1	261H105050	Chassis, Front
003B	2	2	2	158T355010	Lens, Speaker
004B	1	1	1	261H265030	Indicator, Function
005B	1	1	1	261H265010	Indicator, Balance
006B	1	1	1	261H270010	Button, Tuner
007B	1	1	1	261H270020	Button, Phono
008B	1	1	1	261H270030	Button, Video/AUX
009B	1	1	1	261H270040	Button, Tape Monitor
010B	1	1	1	261H270050	Button, CD
011B	5	5	5	261H115010	Spring, Button
012B	1	1	1	158T270010	Button, Power
013B	1	1	1	261H154010	Knob, Volume
014B	2	2	2	262H270020	Button, Subsonic/Loudness
015B	6	6	6	261H154020	Knob, Balance EQ
016B	2	2	2	242H270020	Button, Speaker
001G	1	1	1	261H105010	Chassis, Front
002G	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
003G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
004G	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
005G	1	1	1	261H053010	Cover, Tone
006G	1	1	1	261H265020	Indicator
007G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
008G	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
002R	1			105H861010	Label

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
001S	1			262H801020	Packing Case
001S		1	1	262H801010	Packing Case
002S	1	1	1	261H809010	Cushion, (R)
003S	1	1	1	261H809020	Cushion, (L)
004S	1	1	1	9090808030	Polyethylene Sheet
005S	2			9526019010	Serial No. Card
005S		4		9526019060	Serial No. Card
005S			4	9526019030	Serial No. Card
006S	1			2918107390	Sheet, AC Cord
001T		1	1	262H851310	User Manual
002T		1	1	262H851320	User Manual
003T		1		262H856010	Circuit Diagram
004T			1	9631000090	Warranty Card
005T	1			262H851210	User Manual
006T	1			262H851220	User Manual, Spec
007T	1			103H854010	Warranty Card
008T	1			2225813010	Envelope
009T	1			9650000050	S. Station Card
010T	1			101K854210	Warranty Card, Canada
⚠W001		1		ZC01805010	A.C. Power Cord
⚠W001			1	ZC02006020	A.C. Power Cord

● [P02-99] Main Chassis



REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
017B	1	1	1	262H270500	Button, MM/MC
001D	1	1	1	261H257010	Lid, Top Cover
002D	6	6	6	51706009U0	SPEC. Set Screw
003D	1	1	1	51280308B0	B.H. Tapped Screw B3 x 8
004D	1			261H056010	Buffer
004D		1	1	208H056010	Buffer
001F	1			262H105030	Chassis, Main
001F		1	1	262H105020	Chassis, Main
003F	4	4	4	416H057010	Leg
004F	4	4	4	51280408B0	B.H. Tapped Screw B4 x 8
005F	4	4	4	51706009U0	SPEC. Set Screw
006F	4			51280308B0	B.H. Tapped Screw B3 x 8
006F		3	3	51280308B0	B.H. Tapped Screw B3 x 8
007F	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
009F	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
010F	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
011F	2	2	2	51280308B0	B.H. Tapped Screw B3 x 8
012F		2	2	51280308B0	B.H. Tapped Screw B3 x 8
013F	1			1455259090	Bushing, AC Cord
002G	3	3	3	51280308B0	B.H. Tapped Screw B3 x 8
001L	1	1	1	261H267020	Heatsink
002L	6	6	6	51780312B0	Fin Neck B.T. Screw B3 x 12
003L	2	2	2	261H160010	Bracket, Heatsink
004L	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
005L	2	2	2	262H267010	Heatsink, IC
006L	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
001R	1			2112265010	Indicator, Serial No.
001R		1	1	2112265110	Indicator, Serial No.
003R	1			9511101070	Label, UL
005R	1			2457861040	Label, CSA
006R	2			117H861010	Label
007R		1	1	2911861110	Label
⚠F001	1			FS10300500	Fuse 3A
⚠F001		1	1	FS10140800	Fuse 1.4A
⚠J001	1			YJ08000300	Jack, Fuse Holder
⚠J001		1	1	YJ08000290	Jack, Fuse Holder
J002	1	1	1	YJ06001050	Jack, 5P
⚠J021	1			YJ04001010	Jack, AC Outlet
J031	1	1	1	YL03010250	Terminal, GND
⚠J091		1	1	BY05080050	Voltage Selector
⚠J093		1	1	YP04005080	Plug, AC Inlet
⚠L001	1			TS17629030	Power Transformer
⚠L001		1	1	TS18617010	Power Transformer
⚠W001	1			YC01800260	A.C. Power Cord

10. ELECTRICAL PARTS LIST

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
					P701-MAIN AMP CIRCUIT BOARD
P701	1	1	1	YK262H1610	P.W. Board, Main Amp
	1	1	1	ZZ262H1610	P.W. Board Assembly
					P701-CAPACITORS
C401	1	1	1	DF16103350	Film 0.01μF ±10%
C402	1	1	1	DF16103350	Film 0.01μF ±10%
C403	1	1	1	EA47505030	Elect 4.7μF 50V
C404	1	1	1	EA47505030	Elect 4.7μF 50V
C405	1	1	1	DD15820370	Ceramic 82pF ±5%
C406	1	1	1	DD15820370	Ceramic 82pF ±5%
C407	1	1	1	DD15681370	Ceramic 680pF ±5%
C408	1	1	1	DD15681370	Ceramic 680pF ±5%
C409	1	1	1	EA22800630	Elect 2200μF 6.3V
C410	1	1	1	EA22800630	Elect 2200μF 6.3V
C411	1	1	1	EA22701630	Elect 220μF 16V
C412	1	1	1	EA22701630	Elect 220μF 16V
C413	1	1	1	DF16473350	Film 0.047μF ±10%
C414	1	1	1	DF16473350	Film 0.047μF ±10%
C415	1	1	1	DF16103350	Film 0.01μF ±10%
C416	1	1	1	DF16103350	Film 0.01μF ±10%
C417	1	1	1	DF16333350	Film 0.033μF ±10%
C418	1	1	1	DF16333350	Film 0.033μF ±10%
C419	1	1	1	EA47505030	Elect 4.7μF 50V
C420	1	1	1	EA47505030	Elect 4.7μF 50V
C421	1	1	1	DF16472350	Film 4700pF ±10%
C422	1	1	1	DF16472350	Film 4700pF ±10%
C423	1	1	1	DK18103310	Ceramic 0.01μF
C424	1	1	1	DK18103310	Ceramic 0.01μF
C701	1	1	1	EA33505030	Elect 3.3μF 50V
C702	1	1	1	EA33505030	Elect 3.3μF 50V
C703	1	1	1	DD15821370	Ceramic 820pF ±5%
C704	1	1	1	DD15821370	Ceramic 820pF ±5%
C705	1	1	1	EA10505030	Elect 1μF 50V
C706	1	1	1	EA10505030	Elect 1μF 50V
C707	1	1	1	EA22605030	Elect 22μF 50V
C708	1	1	1	EA22605030	Elect 22μF 50V
C709	1	1	1	DD15101370	Ceramic 100pF ±5%
C710	1	1	1	DD15101370	Ceramic 100pF ±5%
C711	1	1	1	EA10505030	Elect 1μF 50V
C712	1	1	1	EA10505030	Elect 1μF 50V
C713	1	1	1	DD15150370	Ceramic 15pF ±5%
C714	1	1	1	DD15150370	Ceramic 15pF ±5%
C715	1	1	1	DF16333350	Film 0.033μF ±10%
C716	1	1	1	DF16333350	Film 0.033μF ±10%
C717	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C718	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C719	1	1	1	EA47505030	Elect 4.7μF 50V
C720	1	1	1	EA47505030	Elect 4.7μF 50V
C721	1	1	1	EA47505030	Elect 4.7μF 50V
C722	1	1	1	EA47505030	Elect 4.7μF 50V
C723	1	1	1	DF16683350	Film 0.068μF ±10%
C724	1	1	1	DF16683350	Film 0.068μF ±10%
C725	1	1	1	DF16683350	Film 0.068μF ±10%
C726	1	1	1	DF16683350	Film 0.068μF ±10%

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
C801	1	1	1	EA10701630	Elect 100μF 16V
C802	1	1	1	EA10701630	Elect 100μF 16V
C803	1	1	1	EB68805060	Elect 6800μF 50V
C804	1	1	1	EB68805060	Elect 6800μF 50V
C805	1	1	1	DK18103560	Ceramic 0.01μF
C806	1	1	1	DK18103560	Ceramic 0.01μF
C807	1	1	1	EA33701630	Elect 330μF 16V
C808	1	1	1	EA10605030	Elect 10μF 50V
C809	1	1	1	EA10701630	Elect 100μF 16V
CK01	1	1	1	EA10605030	Elect 10μF 50V
CK02	1	1	1	EA22701030	Elect 220μF 10V
CK03	1	1	1	EA10605030	Elect 10μF 50V
CK04	1	1	1	EA33505030	Elect 3.3μF 50V
CK05	1	1	1	EA47506330	Elect 4.7μF 63V
CS01	1	1	1	EA33505030	Elect 3.3μF 50V
CS02	1	1	1	EA33505030	Elect 3.3μF 50V
CS03	1	1	1	DK18103310	Ceramic 0.01μF
CS04	1	1	1	EA33505030	Elect 3.3μF 50V
CS05	1	1	1	EA33801630	Elect 3300μF 16V
CS06	1	1	1	DK18103310	Ceramic 0.01μF
CS07	1	1	1	DK18103310	Ceramic 0.01μF
CS08	1	1	1	EA10505030	Elect 1μF 50V
CV01	1	1	1	EA33505030	Elect 3.3μF 50V
CV02	1	1	1	EA33505030	Elect 3.3μF 50V
					P701-RESISTORS (All Resistors are ±5% and ¼W)
R401	1	1	1	GD05154140	150KΩ
R402	1	1	1	GD05154140	150KΩ
R403	1	1	1	GD05331140	330Ω
R404	1	1	1	GD05331140	330Ω
R405	1	1	1	GD05101140	100Ω
R406	1	1	1	GD05101140	100Ω
R407	1	1	1	GD05683140	68KΩ
R408	1	1	1	GD05683140	68KΩ
R409	1	1	1	GD05220140	22Ω
R410	1	1	1	GD05220140	22Ω
R411	1	1	1	GD05120140	12Ω
R412	1	1	1	GD05120140	12Ω
R413	1	1	1	GD05472140	4.7KΩ
R414	1	1	1	GD05472140	4.7KΩ
R415	1	1	1	GD05391140	390Ω
R416	1	1	1	GD05391140	390Ω
R417	1	1	1	GD05472140	4.7KΩ
R418	1	1	1	GD05472140	4.7KΩ
R419	1	1	1	GD05472140	4.7KΩ
R420	1	1	1	GD05472140	4.7KΩ
R421	1	1	1	GD05121140	120Ω
R422	1	1	1	GD05121140	120Ω
R423	1	1	1	GD05121140	120Ω
R424	1	1	1	GD05121140	120Ω
R425	1	1	1	GD05683140	68KΩ
R426	1	1	1	GD05683140	68KΩ
R427	1	1	1	GD05562140	5.6KΩ
R428	1	1	1	GD05562140	5.6KΩ
R429	1	1	1	GG05101140	100Ω
R430	1	1	1	GG05101140	100Ω

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
R431	1	1	1	GD05104140	100KΩ
R432	1	1	1	GD05104140	100KΩ
R433	1	1	1	GD05561140	560Ω
R434	1	1	1	GD05561140	560Ω
R701	1	1	1	GD05102140	1KΩ
R702	1	1	1	GD05102140	1KΩ
R703	1	1	1	GD05104140	100KΩ
R704	1	1	1	GD05104140	100KΩ
R705	1	1	1	GD05102140	1KΩ
R706	1	1	1	GD05102140	1KΩ
R707	1	1	1	GD05563140	56KΩ
R708	1	1	1	GD05563140	56KΩ
R709	1	1	1	GD05222140	2.2KΩ
R710	1	1	1	GD05222140	2.2KΩ
R711	1	1	1	GD05123140	12KΩ
R712	1	1	1	GD05123140	12KΩ
R713	1	1	1	GD05684140	680KΩ
R714	1	1	1	GD05684140	680KΩ
R715	1	1	1	GG05047140	4.7Ω
R716	1	1	1	GG05047140	4.7Ω
R717	1	1	1	GG05047140	4.7Ω
R718	1	1	1	GG05047140	4.7Ω
R719	1	1	1	GD05563140	56KΩ
R720	1	1	1	GD05563140	56KΩ
⚠R721	1	1	1	BW10000040	0.27Ω 3W x 2, Compo.
⚠R722	1	1	1	BW10000040	0.27Ω 3W x 2, Compo.
R723	1	1	1	GD05151140	150Ω
R724	1	1	1	GD05151140	150Ω
R725	1	1	1	GD05222140	2.2KΩ
R726	1	1	1	GD05222140	2.2KΩ
R727	1	1	1	GD05122140	1.2KΩ
R728	1	1	1	GD05122140	1.2KΩ
R729	1	1	1	GA05047010	4.7Ω 1W
R730	1	1	1	GA05047010	4.7Ω 1W
R731	1	1	1	GD05153140	15KΩ
R732	1	1	1	GD05153140	15KΩ
R733	1	1	1	GA05100020	10Ω 2W
R734	1	1	1	GA05100020	10Ω 2W
R735	1	1	1	RA01010600	100Ω, Trimming
R736	1	1	1	RA01010600	100Ω, Trimming
⚠R801	1	1	1	GA05102030	1KΩ 3W
⚠R802	1	1	1	GA05821030	8.2KΩ 3W
R803	1	1	1	GA05182020	1.8KΩ 2W
R804	1	1	1	GD05471140	470Ω
R807	1	1	1	GA05182020	1.8KΩ 2W
RK01	1	1	1	GD05123140	12KΩ
RK02	1	1	1	GD05222140	2.2KΩ
RK03	1	1	1	GD05123140	12KΩ
RK04	1	1	1	GD05564140	560KΩ
RK05	1	1	1	GD05333140	33KΩ
RK06	1	1	1	GD05563140	56KΩ
RK07	1	1	1	GD05101140	100Ω
RK08	1	1	1	GD05223140	22KΩ
RK09	1	1	1	GD05103140	10KΩ
RK10	1	1	1	RF05100140	10Ω, Fusible

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
RS01	1	1	1	GD05472140	4.7KΩ
RS02	1	1	1	GD05472140	4.7KΩ
RS03	1	1	1	GD05104140	100KΩ
RS04	1	1	1	GD05224140	220KΩ
RS05	1	1	1	GD05332140	3.3KΩ
RV01	1	1	1	GD05102140	1KΩ
RV02	1	1	1	GD05102140	1KΩ
RV03	1	1	1	GD05105140	1MΩ
RV04	1	1	1	GD05105140	1MΩ
RV05	1	1	1	GD05102140	1KΩ
RV06	1	1	1	GD05102140	1KΩ
RV07	1	1	1	GD05105140	1MΩ
RV08	1	1	1	GD05105140	1MΩ
RV09	1	1	1	GD05221140	220Ω
RV10	1	1	1	GD05221140	220Ω
RV11	1	1	1	GD05102140	1KΩ
RV12	1	1	1	GD05102140	1KΩ
RV13	1	1	1	GD05105140	1MΩ
RV14	1	1	1	GD05105140	1MΩ
RV15	1	1	1	GD05102140	1KΩ
RV16	1	1	1	GD05102140	1KΩ
RV17	1	1	1	GD05105140	1MΩ
RV18	1	1	1	GD05105140	1MΩ
					P701-SEMICONDUCTORS
D401	1	1	1	HD20001000	Diode 1S1555
D402	1	1	1	HD20001000	Diode 1S1555
D701	1	1	1	HD20001000	Diode 1S1555
D702	1	1	1	HD20001000	Diode 1S1555
D703	1	1	1	HD20001000	Diode 1S1555
D704	1	1	1	HD20001000	Diode 1S1555
D705	1	1	1	HV00009080	Varistor STV3H(O,Y)
D706	1	1	1	HV00009080	Varistor STV3H(O,Y)
D707	1	1	1	HD20011010	Diode W06C
D708	1	1	1	HD20011010	Diode W06C
D709	1	1	1	HD20011010	Diode W06C
D710	1	1	1	HD20011010	Diode W06C
D801	1	1	1	HD30038010	Zener HZ9C1L
D802	1	1	1	HD30038010	Zener HZ9C1L
⚠D803	1	1	1	HD20022030	Diode DSF10C
⚠D804	1	1	1	HD20022030	Diode DSF10C
⚠D805	1	1	1	HD20008290	Diode S4VB20
D806	1	1	1	HD30026020	Zener MA1075H
DK01	1	1	1	HD20001000	Diode 1S1555
DK02	1	1	1	HD30023010	Zener HZ6C1L
DK03	1	1	1	HD20002210	Diode 1S2472
⚠DK04	1	1	1	HD20002230	Diode DSF10C
DS01	1	1	1	HD20001000	Diode 1S1555
DS02	1	1	1	HD30045010	Zener HZ9C1L
Q401	1	1	1	HF203691G0	F.E.T. 2SK369(GR)
Q402	1	1	1	HF203691G0	F.E.T. 2SK369(GR)
Q403	1	1	1	HF203691G0	F.E.T. 2SK369(GR)
Q404	1	1	1	HF203691G0	F.E.T. 2SK369(GR)
Q405	1	1	1	HC10008090	IC 4558DD

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
Q701	1	1	1	HT413022B0	Transistor 2SD1302(S,T)
Q702	1	1	1	HT413022B0	Transistor 2SD1302(S,T)
⚠Q703	1	1	1	HC10097060	IC μPC1270H
⚠Q704	1	1	1	HC10097060	IC μPC1270H
⚠Q705	1	1	1	HT325802A0	Transistor 2SC2580(O,Y)
⚠Q706	1	1	1	HT325802A0	Transistor 2SC2580(O,Y)
⚠Q707	1	1	1	HT111052A0	Transistor 2SA1105(O,Y)
⚠Q708	1	1	1	HT111052A0	Transistor 2SA1105(O,Y)
Q709	1	1	1	HT327851B0	Transistor 2SC2785(J, H)
Q710	1	1	1	HT327851B0	Transistor 2SC2785(J, H)
⚠Q801	1	1	1	HT205072Q0	Transistor 2SB507(E, F)
QK01	1	1	1	HT327852B0	Transistor 2SC2785(J,H)
QK02	1	1	1	HT111752B0	Transistor 2SA1175(J,H)
QK03	1	1	1	HT327852B0	Transistor 2SC2785(J,H)
QK04	1	1	1	HT327852B0	Transistor 2SC2785(J,H)
QK05	1	1	1	HT111752B0	Transistor 2SA1175(J,H)
QS01	1	1	1	HC10110030	IC LC7815H
QS02	1	1	1	HC406603C0	IC LC4066B-H
					P701-MISCELLANEOUS
J401	1	1	1	YL01010110	Terminal, Earth
J701	1	1	1	YT03080020	Terminal, Speaker
J702	1	1	1	YJ06002430	Jack, 3P
J703	1	1	1	YL01010110	Terminal, Earth
J801	1	1	1	YP06001050	Plug, 5P
JV01	1			YT02020290	Terminal, RCA Jack; 4P
JV01		1	1	YT02040470	Terminal, RCA Jack; 4P
JV02	1			YT02060180	Terminal, RCA Jack; 4P
JV02		1	1	YT02040470	Terminal, RCA Jack; 4P
JV03	1	1	1	YT02040470	Terminal, RCA Jack; 4P
JS01	1	1	1	YJ06002430	Jack, 3P
JS02	1	1	1	YJ06002460	Jack, 7P
JS03	1	1	1	YJ06002270	Jack, 8P
L701	1	1	1	LL23905120	Coil, 1μH
L702	1	1	1	LL23905120	Coil, 1μH
S401	1	1	1	SP04010470	Push Switch, Phono MM/MC
W701	1	1	1	YU02220260	Jumper Lead, 2P
W702	1	1	1	YU03300260	Jumper Lead, 3P
W703	1	1	1	YU03140260	Jumper Lead, 3P
W704	1	1	1	YU04140260	Jumper Lead, 4P
					PE01-VOLUME CIRCUIT BOARD
PE01	1	1	1	YK262H1620	P.W. Board, Volume
	1	1	1	ZZ262H1620	P.W. Board Assembly
					PE01-CAPACITORS
CE01	1	1	1	EA47505030	Elect 4.7μF 50V
CE02	1	1	1	EA47505030	Elect 4.7μF 50V
CE03	1	1	1	EA22602530	Elect 22μF 25V
CE04	1	1	1	EA22602530	Elect 22μF 25V
CE05	1	1	1	DD15220370	Ceramic 22pF ±5%
CE06	1	1	1	DD15220370	Ceramic 22pF ±5%
CE07	1	1	1	EA22601630	Elect 22μF 16V
CE08	1	1	1	EA22601630	Elect 22μF 16V
CE09	1	1	1	EA47505030	Elect 4.7μF 50V
CE10	1	1	1	EA47505030	Elect 4.7μF 50V

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
CE11	1	1	1	DF16472350	Film 4700pF ±10%
CE12	1	1	1	DF16472350	Film 4700pF ±10%
CE13	1	1	1	DF16183350	Film 0.018μF ±10%
CE14	1	1	1	DF16183350	Film 0.018μF ±10%
CE15	1	1	1	DF16823350	Film 0.082μF ±10%
CE16	1	1	1	DF16823350	Film 0.082μF ±10%
CE17	1	1	1	EA33405030	Elect 0.33μF 50V
CE18	1	1	1	EA33405030	Elect 0.33μF 50V
CE19	1	1	1	EA10505030	Elect 1μF 50V
CE20	1	1	1	EA10505030	Elect 1μF 50V
CE21	1	1	1	EA47505030	Elect 4.7μF 50V
CE22	1	1	1	EA47505030	Elect 4.7μF 50V
CE23	1	1	1	DF16183350	Film 0.018μF ±10%
CE24	1	1	1	DF16183350	Film 0.018μF ±10%
CE25	1	1	1	DD15331370	Ceramic 330pF ±5%
CE26	1	1	1	DD15331370	Ceramic 330pF ±5%
CE27	1	1	1	DF16683350	Film 0.068μF ±10%
CE28	1	1	1	DF16683350	Film 0.068μF ±10%
CE29	1	1	1	DD15220370	Ceramic 22pF ±5%
CE30	1	1	1	DD15220370	Ceramic 22pF ±5%
					PE01-RESISTORS (All Resistors are ±5% and ¼W)
RE01	1	1	1	GD05104140	100KΩ
RE02	1	1	1	GD05104140	100KΩ
RE03	1	1	1	GD05223140	22KΩ
RE04	1	1	1	GD05223140	22KΩ
RE05	1	1	1	GD05104140	100KΩ
RE06	1	1	1	GD05104140	100KΩ
RE07	1	1	1	GD05103140	10KΩ
RE08	1	1	1	GD05103140	10KΩ
RE09	1	1	1	GG05101140	100Ω
RE10	1	1	1	GG05101140	100Ω
RE11	1	1	1	GD05331140	330Ω
RE12	1	1	1	GD05331140	330Ω
RE13	1	1	1	GD05331140	330Ω
RE14	1	1	1	GD05331140	330Ω
RE15	1	1	1	GD05104140	100KΩ
RE16	1	1	1	GD05104140	100KΩ
RE17	1	1	1	GD05333140	33KΩ
RE18	1	1	1	GD05333140	33KΩ
RE19	1	1	1	GD05183140	18KΩ
RE20	1	1	1	GD05183140	18KΩ
RE21	1	1	1	RS05030520	50KΩ(B), Variable
RE22	1	1	1	RS05030520	50KΩ(B), Variable
RE23	1	1	1	RS05030520	50KΩ(B), Variable
RE24	1	1	1	RS05030520	50KΩ(B), Variable
RE25	1	1	1	RS05030520	50KΩ(B), Variable
RE26	1	1	1	RM01040840	100KΩ(B), Variable
RE27	1	1	1	RX02040080	200KΩ(W), Variable
RY01	1	1	1	GD05471140	470Ω
RY02	1	1	1	GD05104140	100KΩ
RY03	1	1	1	GD05471140	470Ω
RY04	1	1	1	GD05104140	100KΩ
RY05	1	1	1	GD05471140	470Ω
RY06	1	1	1	GD05104140	100KΩ
RY07	1	1	1	GD05471140	470Ω
RY08	1	1	1	GD05104140	100KΩ
RY09	1	1	1	GD05471140	470Ω
RY10	1	1	1	GD05104140	100KΩ

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
					PE01-SEMICONDUCTORS
QE01	1	1	1	HC10108030	IC STK6325A
QE02	1	1	1	HC10108030	IC STK6325A
QE03	1	1	1	HC10008090	IC 4558DD
QY01 ~ QY05	5	5	5	HT111752B0	Transistor 2SA1175(J, H)
					PE01-MISCELLANEOUS
SE01	1	1	1	SP02011090	Push Switch, Loudness
SE02	1	1	1	SP02011090	Push Switch, Low Filter
SY01	1	1	1	SP01010840	Push Switch, Tape 1
SY02	1	1	1	SP01010840	Push Switch, Phono
SY03	1	1	1	SP01010840	Push Switch, Tape 2
SY04	1	1	1	SP01010840	Push Switch, CD
SY05	1	1	1	SP01010840	Push Switch, Tuner
VY01 ~ VY05	5	5	5	IN10080620	Lamp
WE01	1	1	1	YU03160260	Jumper Lead, 3P
WE02	1	1	1	YU03240260	Jumper Lead, 3P
WY01	1	1	1	YU07160260	Jumper Lead, 7P
WY02	1	1	1	YU08160260	Jumper Lead, 8P
					PN01-SPEAKER SWITCH CIRCUIT BOARD
PN01	1	1	1	YK262H1630	P.W. Board, Speaker Switch
	1	1	1	ZZ262H1630	P.W. Board Assembly
SN01	1	1	1	SP04020440	Push Switch, Speaker-1
SN02	1	1	1	SP04020440	Push Switch, Speaker-2
WN01	1	1	1	YU03120260	Jumper Lead, 3P
					PP01-POWER SWITCH CIRCUIT BOARD
PP01	1	1	1	YK262H1640	P.W. Board, Power Switch
	1	1	1	ZZ262H1640	P.W. Board Assembly
⚠G001	1	1	1	DK18103840	Ceramic Cap. 0.01μF 250V
⚠S001	1	1	1	SP01010650	Push Switch, Power

REF. DESIG.	Q'TY U	N	A	PART NO.	DESCRIPTION
					PW01-HEADPHONE JACK CIRUCUIT BOARD
PW01	1	1	1	YK262H1650	P.W. Board, Headphone Jack
	1	1	1	ZZ262H1650	P.W. Board Assembly
RW01	1	1	1	GA05331010	Resistor 330Ω ±5% 1W
RW02	1	1	1	GA05331010	Resistor 330Ω ±5% 1W
JW01	1	1	1	YJ01001790	Jack, Headphone
					PX01-SPEAKER LAMP CIRCUIT BOARD
PX01	1	1	1	YK262H1660	P.W. Board, Speaker Lamp
	1	1	1	ZZ262H1660	P.W. Board Assembly
VX01	1	1	1	IN10080620	Lamp 8V 50mA
VX02	1	1	1	IN10080620	Lamp 8V 50mA

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY:

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

11. TECHNICAL SPECIFICATIONS

AUDIO SECTION

POWER OUTPUT PER CHANNEL

DIN 4 OHMS	**70 W**
RMS 4 OHMS	**65 W**
DIN 8 OHMS	**60 W**
RMS 8 OHMS	**50 W**
TOTAL HARMONIC DISTORTION AT RMS 8 OHMS	**0.05%**
I.M. DISTORTION	**0.05%**
DAMPING FACTOR 8 OHMS (1 kHz)	**55**

MM CARTRIDGE INPUT

Frequency Response (RIAA) 20 Hz – 20 kHz)	±0.5 dB
Signal-to-Noise Ratio	80 dB
Input Impedance	47 k ohms
Input Capacitance	100 pF
Input Sensitivity	2.5 mV

MC CARTRIDGE INPUT

Input Sensitivity	250 μV
Input Impedance	100 ohms

AUX. INPUT

Input Impedance	25 k ohms
Input Sensitivity	150 mV
Frequency Response (±2 dB)	10 Hz – 50 kHz
Signal-to-Noise Ratio	93 dB

OUTPUT VOLTAGE

Tape Out (Input 7.75 mV)	417 mV

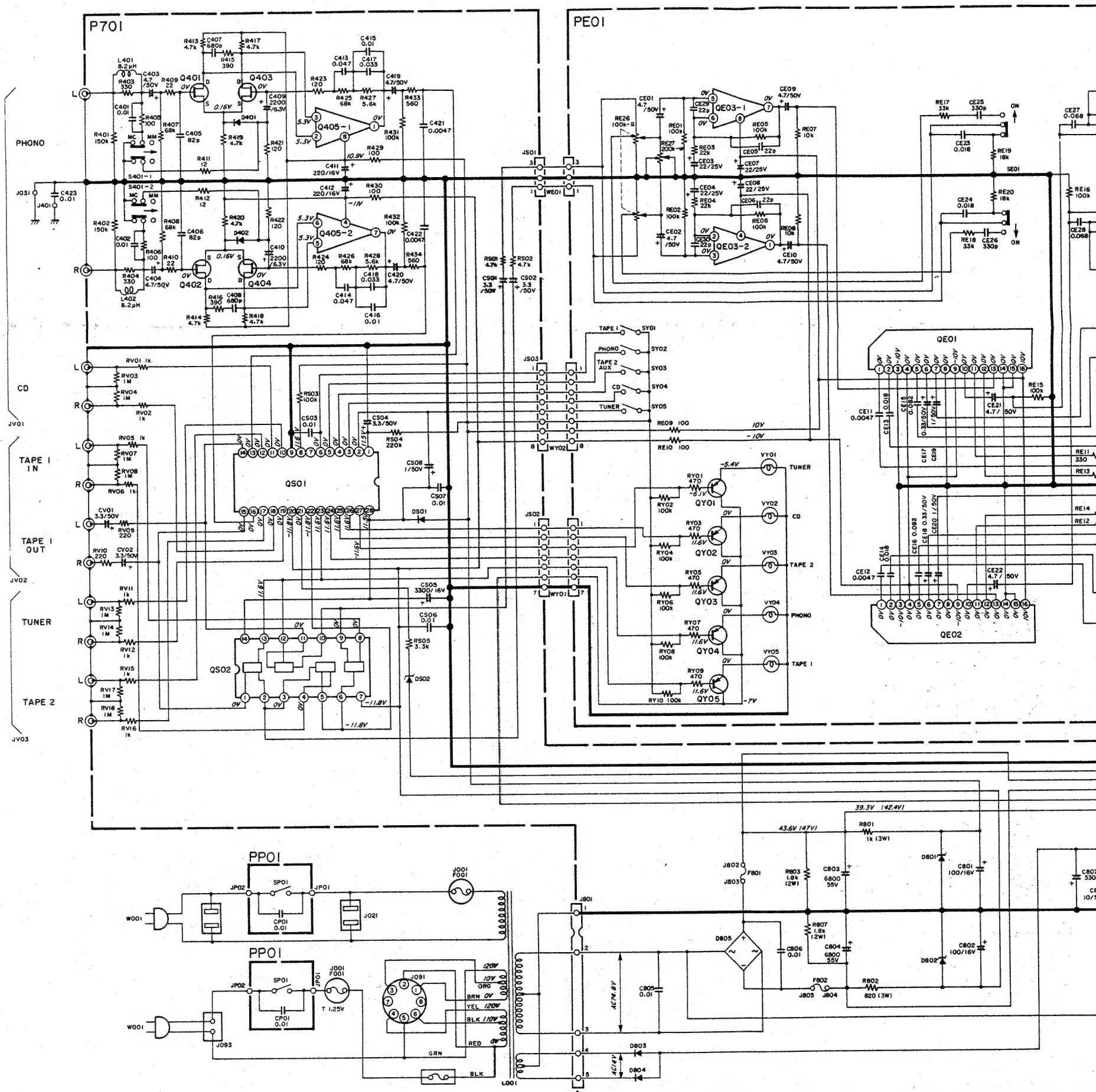
OUTPUT IMPEDANCE

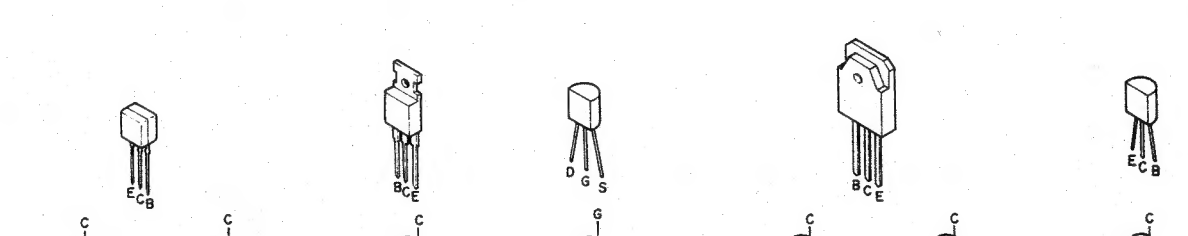
Tape Out	300 ohms

GENERAL

Power Requirements	110/120/220/240V AC, 50/60 Hz
Power Consumption at Rated Output, both Channels Operating	240 W
Dimensions	
Panel Width	416 mm
Panel Height	85 mm
Depth	225 mm
Weight	
Unit Alone	5.3 kg

12. SCHEMATIC DIAGRAM

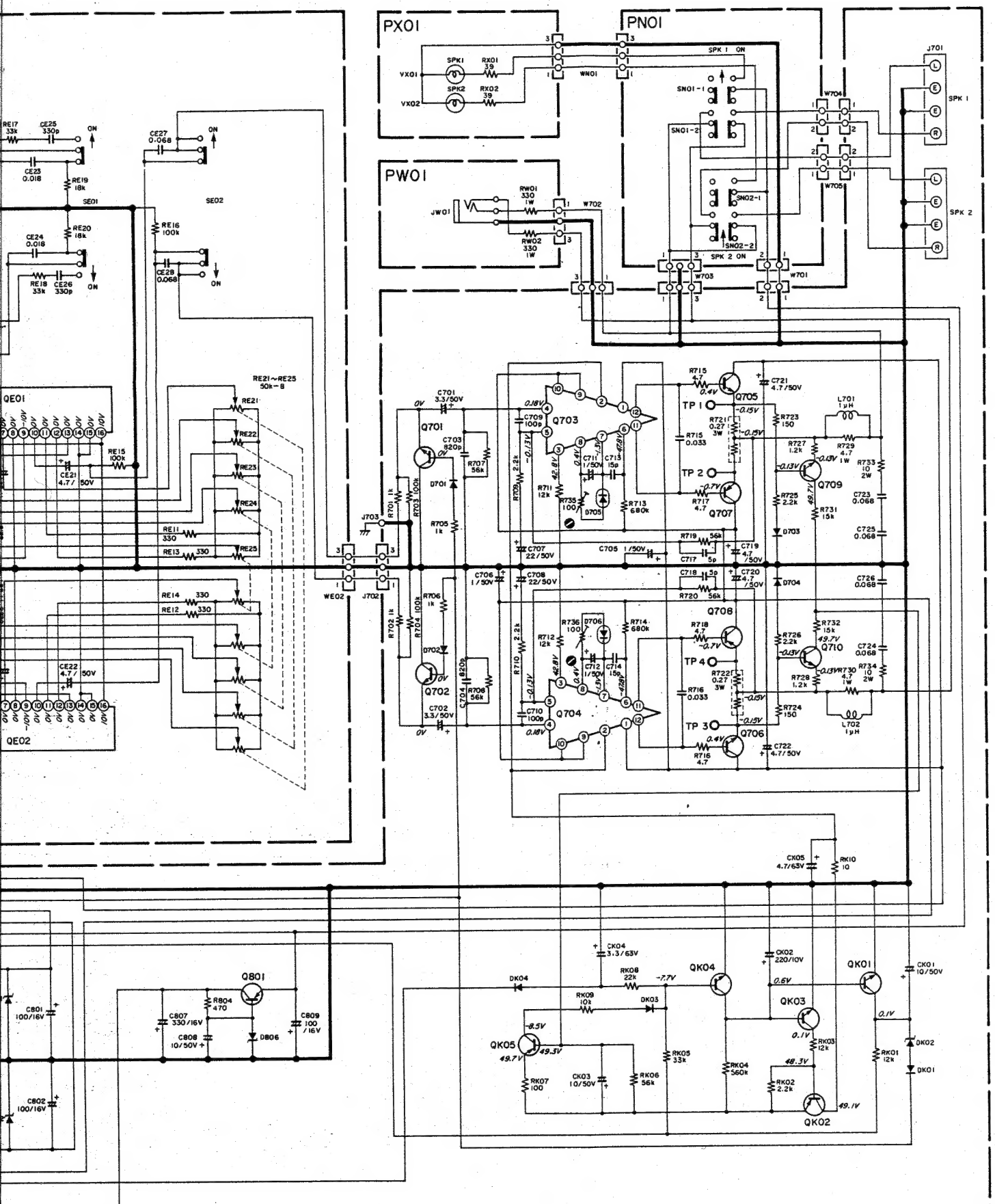




NOTE ON SAFETY:

Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

Model PM440



QE01, QE02
HC10108030
STK-6325A

QE03, Q405
HC10008090
NJM4558D-D

QY01~QY05, QK02, QK05
HT1111528
2SA1175

QK01, QK03, QK04, Q709, Q710
HT32785280
2SC2785

QS01
HC10110030
LC7815H

QS02
HC406603C0
LC4066B-H

Q401~Q404
HF20369160
2SK369

Q701, Q702
HT41302280
2SD1302

Q703, Q704
HC10097060
μPC1270H

Q705, Q706
HT325802A0
2SC2578

Q707, Q708
HT111052A0
2SA1103

Q801
HT20507200
2SB507

DK01, DS01, D401, D402, D701~D704
HD20001000
1S1555

DK02, D808
HD30045010
HZ6C

DK03, D801, D802
HD30038010
1S2472

DK04
HD20022030
DSF10C

D705, D706
HV00009080
STV3H

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HD20008290
S4VB

D806, D807
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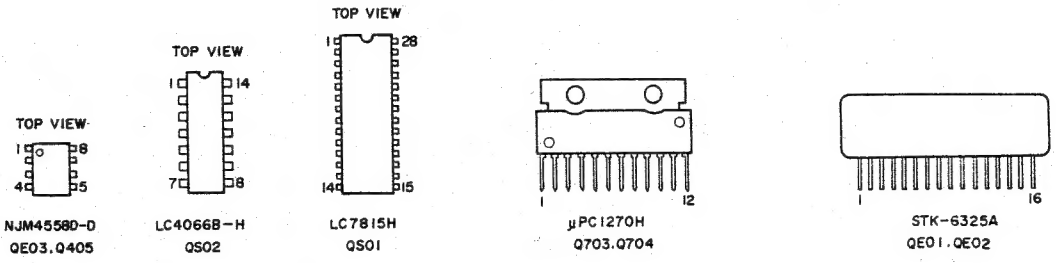
DS135D

DS02
HD30045010
HZ9CIL



Components and wiring are subject to change for modification without notice.